Borough of Heywood.

Annual Report

OF THE

Medical Officer of Health

FOR

YEAR ENDING DECEMBER 31st, 1914.

H. H. I. HITCHON,
MEDICAL OFFICER OF HEALTH.

GEO. G. BOUCHIER,
TOWN CLERK.

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Report of the Medical Officer of Health.

To the Chairman and Members of the Health Committee of the Corporation of Heywood.

GENTLEMEN,

I have the honour to present to you my Annual Report on the Health of the Borough of Heywood, being the seventeenth issued since my appointment as your Medical Officer.

Heywood is a Municipal Borough and Township situated in the South Eastern part of the County of Lancaster. It is comprised in the parish, union, and county court district of Bury, rural deanery of Bury, archdeaconry and diocese of Manchester, and is situated on the bank of the river Roach, 3 miles East of Bury and 9 miles from Manchester.

The Lancashire and Yorkshire Railway have two stations here, and there is water connection with the Rochdale Canal, whilst a frequent service of electric trams provide ready access to adjoining towns.

Rateable Value..... £122,220.

	s.	d.
Borough Rate	2	3
General District Rate ...	5	2
	7	5
Poor Rate	2	0
Total Rates in the £ ...	9	5

Poor Rate, 2s. od. in the £, made up as follows :—

	s.	d.
Relief of the Poor and other expenses of the Guardians ...	0	10½
County Contributions...	1	1
Expenses of Overseers	0	0½
	2	0

Poor Law Relief.—The amount expended on Poor Law Relief (out-door) during the year was £970 6s. 7d.

The statistics this year have been based upon an estimated population of **27,100**, distributed as follows :—

Ward.	Males.	Females.	Total.
East	1443 ...	1707 ...	3150
North	1599 ...	1841 ...	3440
Park	1612 ...	1998 ...	3610
Central	1651 ...	1919 ...	3570
Hopwood... ...	1773 ...	2147 ...	3920
South	1639 ...	1861 ...	3500
Heap Bridge...	1270 ...	1450 ...	2720
West	1476 ...	1714 ...	3190
	12463	14637	27100

Table of the areas of the various Wards of the Borough, the estimated population, and the density of the population of each Ward :—

Ward.	Acreage.	Estimated Population.	Persons per Acre.
East	446	3150	7·06
North...	641	3440	5·36
Park	131	3610	27·55
Central	79	3570	45·19
Hopwood...	848	3920	4·62
South...	359	3500	9·74
Heap Bridge ...	992	2720	2·74
West	162	3190	19·69
Total for the Borough...	3658	27100	7·4

Births.—The number registered during 1914 was **546**. This number is **45** less than registered in 1913. In 1913 there was a decrease of **18** as compared with the previous year. The birth rate is therefore **20·14** per 1,000 of the estimated population, whereas during the previous year it was estimated at **21·81** per 1,000 of the population. **Twenty-six** of the above births were illegitimate, which is equal to **4·76** per cent. of the total births. During the previous year there were 29 illegitimate births, or 4·91 per cent. of the total births.

The birth-rate shows a decrease during the past year. It is 3·66 per 1,000 below that of the whole of England and Wales, and is the lowest birth-rate recorded for this Borough during the last thirty-four years.

Transferable Births.—Seven have been allocated to this Borough, viz. : 2 Males, 5 Females, and of these 5 were illegitimate, viz. : 2 Males and 3 Females. If these births be added to the 546 which occurred within the Borough then the total number of births would be 553, which would be equal to a birth-rate of 20·4 per 1,000 of the population.

During the last ten years, 1905-1914, the birth-rate in Heywood was **21·75**, whereas during the ten years previous, 1895-1904, the birth-rate was **23·37** per 1,000 of the population, i.e., the birth-rate has fallen **1·62** per 1,000 of the population.

In England aud Wales the birth-rate during 1914 was **23·8** per 1,000 of the population, whereas during the previous year it was **23·9** per 1,000 of the population.

Of the **546** children born during 1914, **281** were males and **265** were females.

The Births have occurred in the Wards as follows :—

Ward.	Males.	Females.	Total.	
East	34	33	67, or 21·27	Per 1,000 of Population.
North	29	34	63, or 18·31	
Park	30	30	60, or 16·62	
Central	50	36	86, or 24·08	
Hopwood	43	29	72, or 18·37	
South	44	41	85, or 24·28	
Heap Bridge... ...	22	29	51, or 18·75	
West	29	33	62, or 19·43	
	281	265	546	

Deaths.—The deaths of **421** persons took place during 1914, within the Borough of Heywood, whereas during the previous year **434** deaths occurred. There were **5** deaths of illegitimate registered, which is equal to **1·18** per cent. of the total deaths.

Sex : 214 were Males and 207 were Females.

The deaths occurred in the different Wards as follows :—

	Registered within the Borough.
East Ward	45, or 14·28 per 1,000 of population.
North Ward...	57, or 16·56 ,,
Park Ward	53, or 14·68 ,,
Central Ward	52, or 14·56 ,,
Hopwood Ward... ...	74, or 18·87 ,,
South Ward	52, or 14·85 ,,
Heap Bridge Ward...	39, or 14·33 ,,
West Ward	49, or 15·36 ,,
	421

The death-rate for 1914 is **15·53** per 1,000 of the population. In the previous year the death-rate was **16·01** per 1,000 of the population ; therefore there is a decrease in the death-rate of **0·48** per 1,000 of the population.

The average death-rate for the previous ten years is equal to a rate of **15·33** per 1,000 of the population.

The average death-rate throughout all England and Wales during 1914 was **13·7** per 1,000 of the population (see subjoined table), or an increase of **0·3** per 1,000 of the population on the previous year.

Birth-rate, Death-rate, and Analysis of Mortality during the year 1914 :—

	ANNUAL RATE PER 1,000 LIVING.										
	Births	Total Deaths		Deaths from							
		Crude	Standardized*	Enteric Fever	Small-pox	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Violence	
England and Wales.....	23·8	14·0	13·7	0·05	0·00	0·24	0·08	0·21	0·15	0·58	
97 Great Towns (including London)	25·0	14·7	15·0	0·04	0·00	0·35	0·09	0·25	0·16	0·54	
145 Smaller Towns	23·9	12·9	13·1	0·05	0·00	0·21	0·07	0·18	0·16	0·55	
England and Wales, less the 242 Towns	22·2	13·4	12·4	0·05	0·00	0·12	0·06	0·17	0·14	0·65	
London	24·3	14·4	14·4	0·03	—	0·31	0·07	0·20	0·16	0·59	

	Annual Death rate Per 1,000 Births		Annual Death-rate per 1,000 Living.		Percentage of Total Deaths			
	Diarrhœa and Enteritis (under 2 years)	Total under 1 year	Aged 1 to 65 Years	Aged 65 Years and upwards	Deaths in Public Institutions	Certified Causes	Inquest Cases	Uncertified Causes
England and Wales	20·41	105	7·8	82·5	22·2	91·5	7·3	1·2
97 Great Towns (including London)	26·09	114	8·6	86·1	28·8	91·4	7·8	0·8
145 Smaller Towns	19·84	104	7·1	82·2	15·3	92·3	6·3	1·4
England and Wales, less the 242 Towns	12·64	93	7·0	79·4	15·3	91·4	6·9	1·7
London	27·64	104	8·4	83·8	45·7	89·6	10·3	0·1

The following table shows the death rates for the various Wards during the last ten years :—

	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	Average per year
East, Park & North Wards	15·19	16·96	15·09	15·40	14·07	12·39	13·75	15·12	14·49	13·76	14·62
Central, Hopwood & South Wards .	16·19	15·28	13·64	14·95	13·51	14·79	17·56	16·53	16·24	16·68	15·53
Heap Bridge & West Wards	14·89	15·73	9·81	14·29	13·94	14·59	14·96	14·72	18·45	16·62	14·80

The death-rate in the East, Park, and North Wards, which comprise the old North Ward, is lower than last year by **1·77** per 1,000 of the population.

The death-rate in the Central, Hopwood and South Wards, which formerly comprised the South Ward, is higher than last year by **0·91** per thousand of the population.

The death-rate in the Heap Bridge and West Wards, formerly the West Ward, is **0·84** per thousand of the population lower than last year.

The number of births exceeds the number of deaths during the year by **125**, shewing a natural increase in the population of **125**, whereas during the previous year the natural increase was **157.**

Transferable Deaths.—There are sixty-four of these allocated to this Borough. These are deaths of persons who, usually residing in this Borough, have died in a district outside the Borough. The names of these persons have been received from Dr. Sergeant, the County Medical Officer, and they have been transferred from the following places :—

Ainsworth Hospital	1
Bury Union Workhouse Infirmary	29
Bury Union Workhouse	5
Bury Infirmary	12
Military Hospital, Whitworth-st., Manchester	1
David Lewis' Epileptic Colony, Marthall	1
Manchester Royal Infirmary	3
Nursing Home, Manchester.....	3
Pendlebury Children's Hospital	1
Rochdale Workhouse Infirmary	1
Marland Hospital	1
West Riding Asylum.....	1
Forward.....	59

Brought Forward...	59
Winwick County Asylum	1
Littleborough	1
Oldham.....	1
Rochdale	2
	64

If these deaths be added to the **421** which occurred within the Borough, then the total number would be **485** deaths, which would be equal to a crude death-rate of **17·89** per 1,000 of the population.

The crude death-rate in 1913, was **18·3** per thousand of the population.

Deaths of persons formerly resident in Heywood, occurring outside the Borough, allocated to their respective Wards :—

East Ward	8	
North Ward	12	(One from Britannia Lodging House).
Park Ward	8	
Central Ward	8	(One from Hardfield Lodging House and one from Pine-st. Lodging House).
Hopwood Ward... ...	8	
South Ward	13	
Heap Bridge Ward ...	3	
West Ward	4	
	64	

If these deaths be added to their respective Wards, then the gross Ward death-rate per 1,000 of the population would be :—

East Ward	16·82
North Ward	20·05
Park Ward	16·89
Central Ward...	16·8
Hopwood Ward	20·91
South Ward	18·57
Heap Bridge Ward	15·44
West Ward	16·61

The Tables in this report are based upon the number of deaths occurring within the Borough only.

INFANT MORTALITY.

Infant Mortality Rate.—This rate shews the number of deaths of children under one year of age per one thousand births.

In 1914 in the Borough of Heywood it was **135** as against **164** in the preceding year. In England and Wales it was **105**.

Year.	Infant Mortality Rate.	
	England & Wales.	Heywood.
1905	128	117
1906	133	172
1907	118	122
1908	121	159
1909	109	82
1910	106	119
1911	130	170
1912	95	112
1913	109	164
1914	**105**	**135**
Average...	**115**	**135**

Seventy-four deaths have occurred in children under one year, and **forty-eight** of these children were fed with the bottle, whereas last year out of **ninety-seven** deaths, **sixty-two** were brought up artificially.

The Infant Mortality rate has decreased very considerably this year in the Borough, and the rate for England and Wales has decreased also in a lesser degree.

Five deaths of illegitimate children under one year were registered, viz. :—3 Males, 2 Females.

Below you have presented to you a statement of the chief causes of the deaths amongst infants in this town during the last ten years.

Causes of death under 1 year of age:—

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Common Infectious Diseases:—										
Measles	1	1	4	—	1	4	1	3	3	2
Scarlet Fever	1	1	—	—	—	1	—	—	—	—
Diphtheria	—	—	—	—	—	—	—	—	—	—
Whooping Cough	1	—	5	1	3	1	—	2	1	4
Diarrhœal Diseases:—										
Diarrhœa	13	22	—	29	3	6	33	2	14	2
Gastro-intestinal Catarrh	—	—	—	—	—	—	3	6	5	8
Enteritis	2	2	—	4	1	2	1	2	5	—
Gastritis	3	7	3	3	4	5	4	3	—	6
Wasting Diseases:—										
Premature Birth	5	9	10	6	2	12	12	9	10	5
Congenital Defects	4	10	7	7	9	3	1	3	3	—
Injury at Birth	1	—	1	1	—	—	—	2	1	—
Atrophy, Debility and Marasmus	6	7	3	9	1	7	9	13	11	13
Want of Breast Milk	—	1	—	—	—	—	—	—	—	—
Tuberculous Diseases:—										
Tuberculous Meningitis	—	—	—	—	1	2	2	2	1	1
,, Peritonitis, Tabes Mesenterica	—	1	5	1	—	2	1	1	1	—
Other Tuberculous Diseases	1	2	—	1	3	3	—	—	—	2
Meningitis (not Tuberculous)	1	1	3	2	1	1	1	2	2	—
Convulsions	9	5	5	8	2	1	3	9	2	8
Bronchitis	8	17	11	11	13	8	7	2	12	8
Erysipelas	—	1	—	—	1	—	—	—	1	—
Pneumonia	4	9	13	4	2	3	8	5	12	3
Suffocation (overlaying)	—	—	—	—	—	—	—	—	1	—
Syphilis	—	1	—	—	—	2	1	1	2	2
Other Causes	7	4	7	4	4	9	6	1	10	10
Total.....	67	101	77	91	51	72	93	68	97	74

From this table you will at once see the large number of deaths occurring under the headings of Diarrhœal Diseases, Wasting Diseases, Bronchitis and Pneumonia during that period.

The common Infectious Diseases caused only 41 deaths.

Whereas

Diarrhœal Diseases caused	203, or 25·66	per cent.
Wasting Diseases caused	213, or 26·92	,,
Bronchitis and Pneumonia caused ...	160, or 20·23	,,
Tubercular Diseases caused	33, or 4·18	,,
Deaths from all other causes	182, or 23·01	,,
	791	

The decrease in the Infant Mortality Rate is due to the lesser number of deaths from Diarrhœal Diseases, Wasting Diseases, Bronchitis and Pneumonia, &c., which have occurred during the year.

Fifty-six and three-quarters per cent. of the deaths notified this year as under one year of age occurred in children under three months, and 30·95 per cent. of the latter died from Wasting Diseases such as Premature Birth, Atrophy, Debility, Marasmus, &c., and 21·43 per cent. from Diarrhœal Diseases.

Sixty-five per cent. of the infants dying under one year of age were brought up with the bottle, whilst the number last year was **sixty-four** per cent.

As **ten** of the seventy-four infants dying under one year of age did not live seven days (several only living a few hours, and were not even fed), the percentage of bottle-fed to breast-fed should be higher.

It is more correct to say 75 per cent. of the children that lived beyond a week were artificially fed, whereas 25 per cent. were fed naturally.

Again the diseases coming under the head of "Wasting Diseases" have been one of the chief causes of death amongst infants.

These diseases are :—

Premature Birth...	5	deaths
Atrophy, Debility, & Marasmus	13	,,
	18,	or 24·32 of the Infant Mortality.

Deaths from Chest Affections, viz.: Bronchitis and Pneumonia, have decreased this year, causing 14·86 per cent. of the Infant Mortality, whereas last year 24·74 per cent. of the infants' deaths were due to these diseases.

	1914	1913	1912	1911
Bronchitis...	8	12	2	7
Pneumonia	3	12	5	8
	11	24	7	15

Common Infectious Diseases :—

Measles and Whooping Cough were prevalent during the early part of the year. They have caused 6 deaths amongst Infants, viz.: Measles 2, Whooping Cough 4.

Diarrhœal Diseases :—

These include Diarrhœa, Gastro-Intestinal Catarrh, Enteritis, and Gastritis, and shew a decrease as regards the number of deaths this year as compared with last year.

Last year 24 deaths occurred from these diseases, or 24·74 per cent. whereas this year 16 deaths have occurred, or 21·62 per cent.

It is my duty once again to direct your attention to the high Infant Mortality which usually obtains in this Borough, and which during the past year has decreased to 135, from 164 per thousand births in 1913.

The chief cause of this high Infant Mortality is the improper feeding of the Infants. Only twenty-five per cent. of the Infants who died during the year were fed naturally.

The advantages of the natural feeding of children have been dealt with in my previous Reports.

There is little doubt that if mothers would only undertake this natural duty to their off-spring, there would be a very marked diminution in our Infant Mortality, and a marked increase in the resistive powers of those who survived, against disease, &c.

In my Reports for several years your attention has been directed to this question, and suggestions have made to lessen this preventable high death-rate amongst infants. The chief of these have been :—

(1)—The adoption of the Notification of Births Act.

(2)—The appointment of a Lady Health Visitor, to carry out the duties under the Act.

(3)—Instruction of young women, elder girls, and Midwives in our Elementary, Technical, or Sunday Schools by qualified Teachers, regarding the feeding, clothing, &c., of young children, and also the care of their own health, &c.

The establishment of an Infant Welfare Centre otherwise known as "Babies Welcome" or School for Mothers, is desirable. Here, Infant consultations could take place and instruction could be given to mothers on the above subjects.

(4)—The employment in the mills during the later months of pregnancy, or the too early return of the Mothers after confinement, should not be allowed.

(5)—Greater care is required in the isolation and treatment of children suffering from Infectious Diseases, especially the common diseases : Whooping Cough and Measles.

(6)—A greater regard for cleanliness requires to be shewn, not only in the home, but also in the preparation and storage of food, and the surroundings of the house, especially in respect to its sanitary condition.

(7)—The removal of defects ; and improved housing conditions are necessary. The carrying out of the Housing and Town's Planning Act will assist in this work.

(8)—The conversion of all Pails and Midden privies, &c., to the Fresh Water Carriage system should be immediately enforced. This alone would assist greatly in lowering our Infant Mortality Rate.

(9)—Back yards and Streets should be flagged, concreted, or paved, &c.

(10)—As cows' milk is so largely used as a substitute for natural feeding, everything should be done to ensure the purity of the milk.

The Shippons and their surroundings require to be made thoroughly sanitary.

Greater cleanliness requires to be shewn by those who milk and attend to the cows. The cows require to be groomed, and the udders cleansed, &c. before milking takes place.

The collection and distribution of milk requires more attention.

The Adoption of the Notification of Births Act and the appointment of a Health Visitor to carry out the duties under the Act, have been considered several times by the Health Committee and the Council, but owing to the exigencies produced by the War, these matters have been postponed until Peace is restored. Needless to say, as much good would result by the adoption of the Act, and the appointment of a Health Visitor, it is hoped these matters will be carried out at the earliest possible opportunity.

The great loss of our young manhood in this terrible war renders it the more necessary than ever that everything should be done to improve the physique and health of the rising generation.

The following is a summary of the Infant Mortality and Birth-rates and Total Death-rates in Heywood during the past thirty years :—

Year.	Births	Birth-rate per 1,000 of population.		Deaths under 1 year.	Death-rate per 1,000 Births.		Mean Annual Total Death-rate.	
1885	708	28·3	Average 27·2.	91	129	Average 160.	17·7	Average 20·22.
1886	664	26·5		118	177		19 0	
1887	699	27·9		102	146		19·0	
1888	662	26·4		111	167		18·2	
1889	654	26·1		126	192		20·5	
1890	598	23·9		78	130		19 0	
1891	708	30·4		115	162		25·3	
1892	612	26·2		108	176		21·7	
1893	673	28·9		119	187		23·2	
1894	639	27·4		89	139		18·6	
1895	640	25·6	Average 23·37.	134	209	Average 177.	22·9	Average 17·96.
1896	586	23·2		103	177		18·6	
1897	587	23·2		114	194		16·7	
1898	544	21·1		127	233		18·77	
1899	640	24 59		134	209		19·24	
1900	626	24·61		105	167		18·32	
1901	544	21·36		70	128		15·12	
1902	626	24·15		76	121		15·62	
1903	634	24·46		80	126		15·74	
1904	561	21·45		118	210		18·62	
1905	573	21·72	Average 21·75.	67	117	Average 135.	15·53	Average 15·02.
1906	587	22·06		101	172		16·01	
1907	630	23·48		77	122		15·62	
1908	571	21·11		91	159		15 56	
1909	617	22·62		51	82		13·82	
1910	603	21·92		72	119		13·81	
1911	545	20·41		93	170		14·98	
1912	604	22·28		68	112		13·35	
1913	591	21·81		97	164		16·01	
1914	546	20·14		74	135		15·53	

The above Table shews a marked decline in the Birth-rate during the last twenty years. The Death-rate also shews a distinct and gradual decline during the same period.

During the last ten years the Infant Mortality Rate has decreased, but this, however, is still far too high.

Still-born Children.—As previously pointed out, it is difficult to ascertain the number of still-born children in this Borough.

Mr. Stanier, the Cemetery Registrar, informs me 20 still-born children were interred in the Heywood Cemetery, and last year 19 were interred there.

There have also been 12 still-born children interred in the St. James' Churchyard. Last year 17 were interred there.

Our present method of disposal of these still-born children is very unsatisfactory. The compulsory registration of all still-born children after proper certification by a duly qualified Medical man is urgently required.

Our present methods of disposal of these still-born children are very lax and are a distinct incentive to crime.

The adoption of the Notification of Births Act ensures the notification of all cases of still-birth.

NOTIFIABLE DISEASES.

The number of Notifications of Infectious Diseases received this year under the provisions of the Infectious Diseases Notification Act and under the Order, Public Health (Tuberculosis) Regulations, 1912, has greatly increased. The increase is due to an epidemic of Scarlet Fever, which has occurred, and also to the Notification of Chicken-pox, which was adopted by the Council and became notifiable on August 7th, 1914, for six months, as a preventive measure owing to a serious out-break of Small-pox, which occurred in the surrounding districts.

The seven principal zymotic diseases, viz., small-pox, measles, scarlet fever, diphtheria, whooping cough, typhoid fever, and diarrhœa, caused 18 deaths, or 4·27 per cent, of the deaths from all causes.

These deaths were equal to an annual zymotic death-rate of 0·66 per thousand of the population. Last year the zymotic death-rate was 1·73.

The Local Government Board on Feb. 5th, 1914, issued an order entitled "The Public Health (Ophthalmia Neonatorum) Regulations, 1914," which now makes this disease compulsorily notifiable throughout England and Wales. These Regulations came into operation on April 1st, 1914.

The following Notifiable Diseases and Deaths have been reported during the year.

Scarlet Fever	Cases Notified	239	Deaths	2
Typhoid Fever	,,	5	,,	0
Puerperal Fever.....	,,	6	,,	1
Diphtheria and Membranous Croup ...	,,	8	,,	4
Erysipelas	,,	15	,,	4
Small-pox	,,	0	,,	0
Ophthalmia Neonatorum...	,,	5	,,	0
Chicken-pox	,,	33	,,	0
Tuberculosis	,,	100	,,	47
Acute Poliomyelitis	,,	0	,,	0

Table showing the number of Infectious Diseases notified from 1898 to 1914 :—

	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Small-pox	3	—	—	—	1	48	10	32	1	—	—	—	7	—	—	—	—
Scarlet Fever ...	38	28	32	14	22	86	101	193	186	34	12	121	118	88	44	53	239
Diphtheria	4	4	10	13	51	56	29	48	15	11	12	11	4	6	6	6	8
Typhus Fever ...	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enteric Fever ...	14	37	30	14	7	7	7	5	14	7	8	6	2	7	10	7	5
Puerperal Fever.	5	3	1	2	4	3	4	2	2	7	5	4	4	5	8	—	6
Erysipelas	—	—	—	—	—	5	10	30	35	20	13	21	14	21	10	21	15
Chicken-Pox ...	—	—	—	—	—	—	—	14	—	—	—	—	—	26	—	—	33
Poliomyelitis ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—
Ophthalmia Neonatorum...	—	—	—	—	—	—	—	—	—	—	—	—	2	5	5	5	5
Tuberculosis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85*	121	100
	64	74	73	43	85	205	161	324	253	79	50	163	151	158	169	213	411

* Pulmonary Tuberculosis.

SMALL-POX.—There were no cases notified during the year.

VACCINATION.—There is a slight increase in the number of primary vaccinations performed as compared with the previous year.

							Births
During	1914	121	primary	vaccinations	were	performed.	546
,,	1913	112	,,	,,	,,	,,	591
,,	1912	154	,,	,,	,,	,,	604
,,	1911	115	,,	,,	,,	,,	545
,,	1910	162	,,	,,	,,	,,	603
,,	1909	193	,,	,,	,,	,,	617
,,	1908	160	,,	,,	,,	,,	571
,,	1907	243	,,	,,	,,	,,	630
,,	1906	261	,,	,,	,,	,,	587
,,	1905	356	,,	,,	,,	,,	573
,,	1904	336	,,	,,	,,	,,	561
,,	1903	630	,,	,,	,,	,,	634
,,	1902	460	,,	,,	,,	,,	626
,,	1901	267	,,	,,	,,	,,	544
,,	1900	268	,,	,,	,,	,,	626
,,	1899	554	,,	,,	,,	,,	640
,,	1898	97	,,	,,	,,	,,	544
,,	1897	36	,,	,,	,,	,,	587

Opposite the number of primary vaccinations performed during the last seventeen years, I have placed the number of births registered in the corresponding years.

TYPHUS FEVER.—No cases were notified during the year.

DIPHTHERIA AND MEMBRANOUS CROUP.—Eight cases were reported and four deaths occurred during the year, whereas in the previous year six cases were reported and four deaths occurred.

The disease has been distributed in the Borough as under :—

North Ward.		South Ward.	
Foundry Street	1	Fox Street	1
Longford Street	1		
Market Place	1		
Newfields	1		
Pleasant Street	1		
Victoria Terrace, (Bamford Road)	1		
Woodbine Cottages (Coalpit Lane)	1		
	7		1

The mortality this year is 50 per cent., whereas last year it was 66 per cent.

DIPHTHERIA.

CASES REPORTED.

	Total	North Ward	South Ward
January	—	—	—
February	—	—	—
March	—	—	—
April	—	—	—
May	1	1	—
June	—	—	—
July	—	—	—
August	—	—	—
September	—	—	—
October	—	—	—
November	2	1	1
December	5	5	—
Total	8	7	1

The disease has manifested itself in 8 houses.

The houses were supplied with the following Sanitary Conveniences :—

Fresh Water Closet	1
Waste Water Closets	4
Closed Privy Middens	2
Pail	1
	8

The ages of the persons affected are as follows :—

	CASES NOTIFIED.	FATAL CASES.
1 year and under 5	3	2
5 ,, 12	5	2
	8	4

CASES NOTIFIED.		DEATHS.	
Males	6	Males	4
Females	2	Females	0
	8		4

The milk supply of these eight cases was obtained from six farmers.

The houses, on examination, were found to be clean.

Isolation was carried out in three cases.

Six of the cases attended three of the Day Schools, and two were too young to attend school.

Scarlet Fever.—During the year 239 cases were reported, and two deaths have been registered from this disease.

In the previous year 54 cases were reported and four deaths were registered.

Scarlet Fever was most prevalent during the months of April, May, July, August, October, November and December.

The greatest number of cases has been notified in the Hopwood Ward, but the cases have been with this exception, distributed very evenly throughout all the Wards. Two hundred and twelve of the cases were in children under 15 years of age, and the majority of these were in attendance at school.

The two deaths occurred in children at two and five years of age respectively.

This epidemic has been remarkable for (1) The large number of children attacked. (2) The mildness of the disease. (3) Its low mortality. The death-rate is only 0·83 per cent. of the notified cases. The mildness of the epidemic although a great benefit to the sufferers has been a source of danger.

Some of the cases have been so mild they have not been recognized until they have commenced to peel, whilst other cases have been found attending school, during the desquamating period.

No wonder the disease has spread rapidly and developed to such a large extent under these circumstances.

It is more than probable that cases have occurred which have not been recognized, and certainly not notified.

The Disease has occurred as under :

East Ward.	North Ward.	Park Ward.	Central Ward.	Hopwood Ward.	South Ward.	Heap Bridge Ward.	West Ward.
Adelaide Street..2	Bamford Road..8 (2 in one house)	Gas Street 1	Gorsey Hill.....1	Bedford Street ..2 (In one house)	Ashton Street ..3 (2 in one house)	Ashford Street..1	Agincourt St.....3 (In one house)
Aspinall Street ..1	Bridge Street ..1	Hilda Street....1	Hall Street 1	Byng Street 3	Bridge Street ..3 (2 in one house)	Bury New Road.2	Bank Street 4 (3 in one house)
Barley Hall.....1	Dawson Street..1	Langton Street 1	Hind Hill St.....1	Canal Street 3	Coomassie St. ..2 (in one house)	Bury Old Road..2	Derby Street 2 (In one house)
Barley Hall Ter..1	George Street ..1	Miller Street ..2	King Street 1	Charles Street ..2	Egerton Street..3	Coops' Row 4 Heap Bridge (2 in one house)	High Street 2 (In one house)
Bradshaw Street 1	Heyw'd Hall R. 3 (All in one house)	Rochdale Road..5	Lloyd Street 1	Clive Street 3	Fearn Street ..1	Lord St., H. Bge.1	Mason Street....1
Brierley Street ..2	Leigh Street....1	Starky Street ..3	Manchester St. ..2	Farm Street 1	Fox Street.....1	Lower Lomax ..1	Millbank Street..4 (All in one house)
Corry Street 1	Market Place ..2 (In one house)	Tonge Street....3 (2 in one house)	Ormerod Street..2	Green Lane 6 (3 in one house)	Grosvenor St. ..1	Prettywood 2	New York St....2
Hargreaves St. ..1	Pleasant St.....1	William Street..1	Pickup Street....3 (2 in one house)	Glegge Street....1	Hill Street 4 (2 in one house)	Springfield St...1	North Street 1
Railway Street ..1	Queen Street....1	Woodland St. ..1	Pym Street.....1	Hares Hill Rd. ..4	Market Place ..1	Union Street ..5 (3 in one house 2 in another)	Peel Street.....3 (In one house)
Rochdale Lane ..3 (2 in one house)	Victoria Terrace 1	York Street 2	Rock Street 1	Isherwood St....2	School Street ..1	Waterfold Lane 2	Pilsworth Road..1
Rochdale Road E.6 (2 in one house)			Schofield St. 3 (2 in one house)	Lane End 3	St. James' Ter. .1	William Hy. St. 4 (2 in one house 2 in another)	Regent Street....1
Russell Street....5 (2 in one house)			Stanley Street ..2	Magdala Street ..2	Tower Street ..2		Rose Hill St.....5 (All in one house)
Scott Street 1			Walton Street ..2	Manchester Rd...4 (2 in one house)	Wilton Street ..3		Taylor B'ldings..1
Vale Street.....3 (All in one house)				Marlborough St..8			Wham Street....2 (In one house)
Wild Street.....1				May Street 1			
W'dfield Cottages 1				Middleton Road..2			
York Street 1				Newhouse Road..2 (In one house)			
				Park Street.....5 (2 cases in one house 2 in another)			
				Prospect Street ..2			
				Siddall Street ..1			
				Torrington St. ..4 (2 in one house)			
				Union Street 1			
				Walton Street ..1			
32	20	20	21	63	26	25	32

	CASES REPORTED.									DEATHS.							
	Total	East Ward	North Ward	Park Ward	Central Ward	Hopwood Ward	South Ward	Heap B. Ward	West Ward	East Ward	North Ward	Park Ward	Central Ward	Hopwood Ward	South Ward	Heap B. Ward	West Ward
January ...	5	1	—	—	—	—	1	3	—	—	—	—	—	—	—	—	—
February..	6	—	—	—	1	—	—	4	1	—	—	—	—	—	—	—	—
March ...	6	1	—	—	1	2	—	2	—	—	—	—	—	—	—	—	—
April	15	—	—	—	2	12	—	1	—	—	—	—	—	—	—	—	—
May	18	2	1	1	3	9	—	2	—	—	—	—	—	—	—	—	—
June	10	—	2	—	2	5	1	—	—	—	—	—	—	—	—	—	—
July	27	5	—	1	2	15	4	—	—	—	—	—	—	—	—	—	—
August ...	34	14	1	2	6	4	4	—	3	1	—	—	—	1	—	—	—
September	11	3	—	3	—	3	1	1	—	—	—	—	—	—	—	—	—
October...	28	3	1	8	2	5	—	5	4	—	—	—	—	—	—	—	—
November	47	1	9	3	1	7	7	2	17	—	—	—	—	—	—	—	—
December.	32	2	6	2	1	1	8	5	7	—	—	—	—	—	—	—	—
Total...	239	32	20	20	21	63	26	25	32	1	—	—	—	1	—	—	—

The ages of the persons affected and the ages of the fatal cases are as follows :—

	CASES NOTIFIED.	FATAL CASES.
Under 1 year	—	—
Between 1 and 5 years ...	46	1
Between 5 and 15 years .	166	1
Between 15 and 25 years...	15	—
Above 25 years	12	—
	239	2

CASES AFFECTED.		DEATHS.	
Males	113	Males...	1
Females	126	Females	1
	239		2

The disease has manifested itself in 193 houses :—

27 houses were situate in the East Ward.
16 houses were situate in the North Ward.
19 houses were situate in the Park Ward.
19 houses were situate in the Central Ward.
55 houses were situate in the Hopwood Ward.
22 houses were situate in the South Ward.
19 houses were situate in the Heap Bridge Ward.
16 houses were situate in the West Ward.

The houses were supplied with the following sanitary conveniences :—

Fresh Water Closets	53
Waste Water Closets	83
Closed Midden Privies	47
Pails	10
	193

The condition of the houses was as follows :—Very Clean, 2 ; Clean, 188 ; Fairly Clean, 1 ; Dirty, 2.

Isolation was adopted in 133 houses (161 cases being isolated), but in 14 houses (18 cases) it was not even attempted. Sixty cases or 25·1 per cent. were removed for treatment to Marland Hospital.

Typhoid Fever.—Five cases have been notified during the year, and no deaths have been registered. During the year 1913, seven cases were reported and two deaths occurred.

One case occurred in the East Ward.
Two cases occurred in the Park Ward.
Two cases occurred in the Heap Bridge Ward.

The disease has neither been traced to the water nor milk supply in any case.

The disease manifested itself in five houses, and the latter were supplied with the following conveniences :—

Fresh Water Closet	1
Closed Midden Privy...	1
Waste Water Closets	3
	5

The condition of the houses was as follows :—Very Clean, 1 ; Clean, 4.

The milk supply was obtained from six farmers.

Isolation was adopted in four houses. No isolation was adopted in one house.

The disease has occurred in the following streets and wards during the year. :—

East Ward.		Park Ward.		Heap Bridge Ward.	
Corry Street.....	1	Ann Street	1	Bury Old Road	1
		Rochdale Road	1	Springfield Street	1
	1		2		2

The cases were notified during the months of April, July, November and December.

The ages of the persons affected were respectively 2 at 5, 8, 13 and 28 years.

CASES AFFECTED.		DEATHS.	
Males	2	Males	0
Females..	3	Females...	0
	5		0

Puerperal Fever.—Six cases of this disease were notified, and one death occurred. In 1913 no cases were reported.

East Ward.		Central Ward.		Hopwood Ward.	
Wild Street	1	Schofield Street.....	1	Marlborough Street ..	1
				Middleton Road	2
				Victor Street	1
	1		1		4

All the houses were reported in clean condition, and the sanitary conveniences were as follows :—

Fresh Water Closet	1
Waste Water Closet	1
Covered Privy Middens	4
	6

The cases were notified in the months of January (1 case), February (3 cases), March (1 case), and April (1 case).

The ages of the persons affected were respectively 1, 26 years ; 3, 27 years ; 1, 30 years and 1, 32 years.

Erysipelas.—Fifteen cases were notified during the year, and these cases occurred as follows :—

	CASES NOTIFIED.	FATAL CASES.
East Ward	2	0
North Ward	2	0
Park Ward	2	2
Central Ward	3	1
Hopwood Ward... ...	1	0
South Ward	3	1
Heap Bridge Ward ...	2	0
West Ward	0	0
	15	4

The ages and sex distribution of the notified cases were as follows :—

	Under 1 year	1 to 5 years	5 to 15 years	15 to 25 years	25 to 65 years	Over 65 years	Total
Males	—	—	—	1	3	1	5
Females	—	—	—	—	8	2	10

Acute Poliomyelitis—

No case of this disease was notified.

TUBERCULOSIS.

Deaths.—All cases of Consumption, whether affecting the brain, bowels, joints, or lungs, &c., are included under this head. **Forty-seven** deaths have been registered during the year ; 3 under one year of age, 3 between one and five years of age, and 41 above five years of age. This is equal to an annual death-rate of 1·73 per thousand of the population, i.e., roughly, **one** out of **nine** of the deaths this year is due to Consumption.

During the last **twenty** years 1027 deaths have occurred from this disease (215 of these were deaths of children under five years of age) out of a total 8,655 deaths from all causes, or about **one** out of **eight** persons have died from Tuberculosis.

Of the **forty-seven** patients who died of Tuberculosis during 1914, 30 were males and 17 were females, and their occupations were as follows :—

Baker	1
Blacksmith	1
Bricklayer	1
Carrier	1
Cotton Operatives in Spinning Mills	5
Cotton Operatives in Weaving Sheds	2
Grocer's Assistant	1
Labourers	5
Match Packer	1
Paper Bag Maker	1
Paper Mill Operative	1
Picture House Attendant	1
Sheet Metal Worker	1
Scholars	3
Shoemakers	2
Shuttle-tip Forger	1
Silk Operative	1
Stonemason	1
Tobacconist	1
Housewives, &c	8
No Occupations	8
	47

WARD DISTRIBUTION OF TUBERCULOSIS CASES.

East Ward	9
North Ward	3
Park Ward	7
Central Ward	9
Hopwood Ward	8
South Ward	4
Heap Bridge Ward	1
West Ward	6
	47

The deaths were distributed as follows :—

East Ward.	North Ward.	Park Ward.	Central Ward.
Adelaide Street..1	Langton Street ..1	Adelaide St.....1	Birch Street....1
Brierley Street ..1	Peel Lane 1	Elm Street 1	Buxton Street ..1
Green Lane 1	West Street 1	Hartley Street..1	Cromwell St....1
Olive Street 1		Smith Street ..1	Dearden Court..1
Rochdale Rd. E..2		Starky Street ..2	Hardfield St....1
Smithies Street..1		William Street..1	King Street 1
Vale Street.....1			Schofield St.....2
Wild Street.....1			Wolstenholme Buildings....1
9	3	7	9

Hopwood Ward.	South Ward.	Heap Bridge Ward.	West Ward.
Doctor Lane, Birch 2	Fearn Street 1	Prettywood 1	Agincourt St. ..1
Gooden Street ..1	Grosvenor Street.1		Derby Street ..1
Marlborough St..1	Longfield..... .1		Margaret Street.1
Middleton Road..1	Walker Street ..1		Rosehill Street..2
Park Street 1			South Street....1
Princess Street ..1			
Twin Street 1			
8	4	1	6

During the year 114 Notifications of Tuberculosis have been received as follows :—

1 from Medical Officers of Poor Law Institution.

10 from various Hospital Authorities, viz :— 1 Bury ; 9 Manchester.

103 from Local Medical Practitioners.

These Notifications relate to 100 cases of Tubercular Disease occurring within the Borough.

Sex of the notified cases :—

Males..	52
Females	48
	100

The ages of the notified cases were as follows :—

Under 1 year	3
1 to 5 years...	6
5 to 10 years	7
10 to 20 years	19
20 to 30 years	21
30 to 40 years	17
40 to 50 years	13
50 to 60 years	10
Over 60 years	4
	100

The occupations of the cases were :—

Baker	1
Blacksmith	1
Bricklayer...	1
Carter...	1
Cotton Operatives (other than Weavers) ...	28
Cotton Operatives (Weavers)	7
Debt Collector	1
Dyer	1
Grocer's Assistant	1
Home Work	13
Insurance Agent...	1
Ironworkers	3
Joiner	1
Labourers...	10
Match Packer...	1
Paper Bag Maker	1
Railway Porter	1
Shuttle Tip Forger	1
Silk Operative	1
Scholars	12
Shoemakers	2
Telephone Operator...	1
No Occupation	10
	100

The cases were distributed as follows :—

East Ward.	North Ward.	Park Ward.	Central Ward.
Bradshaw St.....1	Bamford Road..2	Adelaide St.....1	Buxton Street ..1
Brierley Street ..1	Claybank St. ..1	Brierley St. 1	Cromwell St.....2
Corry Street 1	George Street ..1	Elm Street 1	Daisy Street 1
Green Lane.....1	Leigh Street....1	Hartley Street..1	Dearden Court ..1
Olive Street 1		Heywood H. Rd. 1	Gorsey Hill St...2
Promenade St. ..2		Longford St. ..1	Hall Street.....1
Railway Street ..1		Miller Street ..1	Henry's Court ..1
Rochdale Lane ..1		Shadwell Street 1	Hornby Street ..1
Rochdale Road E.3		Smith Street ..1	Ormerod St. 1
Vale Street.....2		Starky Street ..3	Penn Street 1
		William Sreet ..1	Schofield St. 4
		York Street 2	Wolstenholme Buildings....1
14	5	15	17

Hopwood Ward.	South Ward.	Heap Bridge Ward.	West Ward.
Bedford Street ..1	Ashton Street ..1	Bury New Rd...2	Bank Street 3
Manchester Rd...1	Bridge Street ..1	Heys Lane 1	Bottom o'th' Brow 1
Marlborough St. 1	Brunswick St...1	Lord Street 1	Derby Street 1
May Street.....1	Cartridge St....1	William Hy. St. 1	High Street 1
Middleton Road..1	Egerton Street..1		Mason Street 1
Park Street 1	Grosvenor St. ..1		New York St.....1
Princess Street ..1	Hill Street 3		North Street 2
Railway Street ..1	Longfield 1		Pilsworth Rd.....3
Twin Street 1	Pitt Street 1		Regent Street....2
Union Street 1	Walker Street ..1		Rosehill Street ..1
Withington St. ..1	Wilton Street ..1		South Street 3
	Wolsey Street ..1		
11	14	5	19

The following sanitary conveniences existed :—

Fresh Water Closets	11
Waste Water Closet	51
Closed Privy Middens	31
Open Privy Middens	1
Pails...	6
	100

Two closed and one open privy middens were reported as in bad condition.

Three closed privy middens were reported as in fair condition.

Description of houses where the disease occurred and number of persons resident in the house :—

57	houses	with	1	living and	2	bed rooms	occupied by	279 = 4·89	persons per house
16	,,		2	,,	3	,, ,,		91 = 5·68	,, ,,
7	,,		2	,,	2	,, ,,		37 = 5·28	,, ,,
17	,,		1	,,	3	,, ,,		89 = 5·23	,, ,,
1	,,		2	,,	4	,, ,,		5 = 5·0	,, ,,
1	,,		2	,,	4	,, ,,		25 = 25·0	,, ,, (George Street Lodging House).
1	,,		2	,,	5	,, ,,		9 = 9·0	,, ,,

Two of the houses were of the back-to-back type, and were situated in Dearden Court and Henry's Court.

Condition of Houses.—As to cleanliness :—

82	reported as	clean.	
9	,,	,,	fairly clean.
9	,,	,,	dirty.
100			

Structural condition of houses :—

Good condition	85
Fair condition	12
Dilapidated...	1
Damp	2
	100

Isolation :—

24 persons were isolated in a bedroom.

13 persons were sleeping alone, but in a bedroom occupied by other members of the family.

18 persons were sleeping alone in the living-room downstairs ; that is, in the room occupied during the day by other members of the family.

32 persons were sleeping with some other member of the family.

7 dead, when visit paid to house.

4 had been removed to Manchester Infirmary, before house visited.

2 had been removed to Bury Infirmary, before house visited.

The Notifications received related to the following structures and parts :—

Abdomen	2
Bones (including Joints, Hip, Knee and Hand	11
Brain	6
Glands	15
Lungs and Pleura...	60
Miliary	1
Neck	1
Peritoneum...	2
Spine	2
	100

SUMMARY.

30 % of those suffering from Pulmonary Tuberculosis were isolated in a bedroom alone.

13·3 % were sleeping alone, but in a bedroom occupied by other members of the family.

30 % were still sleeping with other members of the household.

23·3 % slept in the living room.

Complete isolation of the person suffering from Pulmonary Consumption must be adopted if the spread of this disease is to be prevented.

SANATORIUM TREATMENT.

26 insured persons have been admitted to Sanatoria, viz. :—

Aitken Sanatorium, Holcombe	15
Ainsworth Sanatorium	9
Royal National Sanatorium, Bournemouth...	1
Halifax Sanatorium, Shelf	1

and 14 persons have been discharged, viz. :—

Aitken Sanatorium, Holcombe	9
Ainsworth Sanatorium	4
Royal National Sanatorium, Bournemouth.	1

Insured patients suffering from Pulmonary Consumption, who are considered by the Tuberculosis Officer as suitable for Sanatorium treatment, are now much more quickly admitted to such Institutions than hitherto, and their stay there is more frequently extended beyond the period first prescribed.

Still, there are many insured persons, and a still larger number of persons who are not insured who cannot possibly obtain any Sanatorium treatment.

Some provision requires to be made for the isolation and treatment of these unfortunate persons.

This is a subject which requires your serious consideration.

As seen from the Table describing the houses and the number of persons resident therein, already the number of persons in these houses is above the average per house in the town, and it is absolutely impossible to give an affected person satisfactory isolation in the majority of such houses.

Many Health Authorities have made arrangements which allow these uninsured persons to obtain satisfactory Sanatorium treatment.

Several of the houses were dirty (9 %), and 3 per cent. were damp, dilapidated, or badly lighted.

The Sanitary conveniences attached to many of the houses were far from satisfactory.

38 % of the houses were supplied with pails and midden privies.

NON-NOTIFIABLE DISEASES.

Bronchitis, Pneumonia, and Pleurisy.—The total number of deaths registered is **97. Twenty-eight** of these were under five years of age ; and **Sixty-nine** above five years of age ; this is equal to an annual death-rate of **3·57** per thousand of the population. The deaths occurred as follows :—East Ward, **9** ; North Ward, **12** ; Park Ward, **14** ; Central Ward, **15** ; Hopward Ward, **17** ; South Ward, **11** ; Heap Bridge Ward, **6** ; West Ward, **13.** During the

previous year **83** deaths took place, **thirty-eight** were under five years of age, and **forty-five** above five years of age, which was equal to an annual death-rate of **3·06** per thousand of the population.

Fifty-six of these deaths were due to **Bronchitis**, and they occurred chiefly at the extremes of life.

Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards
8	7	1	0	15	25

Pneumonia caused **37** deaths.

Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards
3	9	3	0	16	6

Pleurisy caused **4** deaths.

Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards
0	1	0	0	2	1

Measles.—Three deaths have occurred from Measles during the year, whereas nine deaths occurred during the previous year.

The following table gives the number of deaths from Measles during the last 18 years :—

1897	1898	1899	1900	1901	1902	1903	1904	1905
11	9	17	29	1	3	1	22	1
1906	1907	1908	1909	1910	1911	1912	1913	1914
8	11	5	1	22	1	8	9	3

The deaths have occurred at the following ages :—

Under 1 year	2
1 year and under 5 years... ...	1
	3

The deaths occurred in the following Wards :—

East Ward.		West Ward.	
Grove Street.....	1	Pilsworth Road.....	1
Rochdale Road E. ..	1		
	2		1

Sex :—Males, 1 ; Females, 2.

During the last eighteen years Measles has caused 162 deaths, whilst the deaths from all the notifiable Infectious Diseases combined (Small-pox, Diphtheria, Scarlet Fever, Enteric Fever, Puerperal Fever, Typhus Fever, and Erysipelas) have only been 210.

These figures at once shew the large number of deaths which occur from Measles, but children often in addition suffer from Bronchitis, Pneumonia, Ear Troubles, Deafness, etc., and as a consequence, their chests become permanently weakened and they become more liable to be affected with Tuberculosis.

Measles is a much more serious disease than Parents generally recognize, and their attention is again directed to the memorandum issued by the Local Government Board regarding this disease.

It directs (1) "That all children attacked by Measles should be kept from school for four weeks.

(2) All children who attend the Infant School from a house where Measles exists should be also excluded for twenty-one days from the onset of the illness of the last patient attacked.

(3) All the elder children who attend the mixed School but who have not had Measles should also be kept from school for twenty-one days from the onset of the illness of the last patient attacked with Measles in the house."

Children suffering from this disease should be isolated and kept warm whilst they are in a state of infection, or during their convalescence.

They should also be given efficient nursing, and medical advice should be obtained.

Diarrhœa—Three deaths have been registered. During the previous year twenty-five deaths were registered.

The deaths have occurred at the following ages :—

Under 1 year of age...	2
1 year	1
	3

Males... 1 Females 2

The deaths occurred during the following months :—

September	2
October	1
	3

The deaths were distributed as follows :—

South Ward.		North Ward.		Park Ward.	
Wesley Street.....	1	Adam Street.....	1	Clarke Street	1
	1		1		1

These children were fed with the bottle.

Employment of the mothers :—

In the Mill	2
At home, performing Household Duties...	1

Sanitary Conveniences :—

Fresh Water Closet	1
Waste Water Closets	2

Cleanliness :—

Two houses were reported as Clean.
One house was reported as Dirty.

Influenza.—Three deaths were due to this disease during the year. In 1913, three deaths occurred.

Whooping Cough.—Six deaths were registered from this disease, two in the East Ward, two in the Park Ward, one in the Hopwood Ward, and one in the South Ward. During the preceding year three deaths occurred.

Four deaths occurred in children under one year and two in children between one and five years.

The following table gives the number of deaths from Whooping Cough during the last 18 years :—

1897	1898	1899	1900	1901	1902	1903	1904	1905
3	9	0	9	3	0	4	20	1

1906	1907	1908	1909	1910	1911	1912	1913	1914
0	8	1	5	4	1	3	3	6

Inquests, &c.—The number of persons over which the Coroner (F. N. Molesworth, Esq.) has held inquests or enquiries is 38, whereas duriug 1913 32 were held.

Uncertified Deaths and Inquests.--During the year 38 deaths were registered in the Borough, in which the cause of death was not certified by any medical practitioner.

In 28 cases an inquest was held by the Coroner.

In 10 cases a preliminary enquiry was made by the Coroner and no inquest was held.

The verdicts found by the Coroner's Juries at the inquests were as follows :—

I. Natural Causes.	II. Accident & Negligence.	III. Suicide.
Convulsions 3	Injury to head caused by accidental fall 2	Drowning 1
Debility 1	Injury to body caused by being crushed 1	Hanging 5
Heart Failure 2	Found Drowned 1	Strangling.....1
Heart Disease 7		Ammonia
		Poisoning 1
Natural Causes 1		
Pneumonia 2		
16	4	8

Preliminary enquiries made by the Coroner, an inquest being dispensed with :—

Convulsions	5
Debility & Premature Birth	1
Heart Disease	2
Syncope	1
Premature Birth...	1
	10

Cancer :—

During the year 20 deaths (equal to a rate of 0·73 per 1,000) were registered as due to various forms of Malignant Disease, as compared with 23 registered during the previous year (equal to a rate of 0·84 per 1,000).

Of these deaths 9 were males, and 11 females.

Character of the disease, as described on the returns :—

	Males.	Females.
Malignant Disease...	2	2
Carcinomata...	5	8
Epithelioma	—	1
Sarcoma...	1	—
Tumour	1	—

ORGANS AFFECTED.	MALES.	FEMALES.
Face...	1	0
Femur	0	1
Gall Bladder	1	0
Liver.....	2	1
Oesophagus.....	1	0
Pylorus...	0	1
Rectum, Sigmoid flexure, and other parts of Bowels	2	5
Scalp	0	1
Scrotum...	1	0
Stomach	0	1
Testicle...	1	0
Uterus	0	1
	9	11

BACTERIOLOGICAL EXAMINATIONS.

Twenty-two specimens were sent to the Public Health Laboratory, Manchester, of which the following are the details :—

	Positive Result.	Negative Result.	Total
Blood serum for Typhoid Bacilli	1	7	8
Swab for Diphtheria Bacilli	5	4	9
Sputum for Tubercle Bacilli.....	1	4	5
	7	15	22

MIDWIVES' ACT, 1902.

At the present time there are on the Register of the Administrative County of Lancaster, for this Borough, twelve Midwives. Last year there were fourteen on the Register.

Two of the Midwives on the register have temporarily ceased practice.

Three of the midwives have undergone training in connection with a Maternity Hospital, and are certified by examination.

The remainder practice by right of holding the Certificate of the Central Midwives' Board, granted on proof of their having been engaged in bona-fide practice for one year previous to the Act coming into operation.

HOUSING, TOWN PLANNING, &c. ACT, 1909.

The Council has determined the procedure to be adopted for the inspection of the Borough, as required by Article 1 of the Regulations, and there has been prepared a list of dwelling-houses, the early inspection of which is desirable.

The Sanitary Inspector, Mr. Robinson, has been appointed to undertake the special inspection of houses, and to keep the records stipulated by Article 2.

The books, forms, &c., have been obtained for keeping the required record.

Action taken in 1914 :—

Number of Dwelling-houses inspected under Sec. 17 of the Act of 1909	490
Number of Dwelling-houses considered unfit for human habitation	23
Number of Representations to Authority with a view to making Closing Orders	23
Number of Closing Orders made	14
Number of Dwelling-houses in which defects were remedied without making Closing Orders	326
Number of Dwelling-houses put into a state of habitation after making Closing Orders	4
Number of Dwelling-houses demolished	5

General character of defects found to exist—General dilapidations.

At the present time there is probably not a deficiency of housing accommodation.

Number of new houses built during 1914 :—20.

These have been erected by private enterprise. No houses have been erected by the Borough Council.

HOSPITAL ACCOMMODATION.

The arrangement with the Rochdale Corporation for the accommodation of the Infectious cases, except Small-pox, from this Borough has continued during the year.

During the year sixty persons suffering from Scarlet Fever have been admitted.

The Small-pox Hospital at Bird i'th' Hand has been transferred to the Bury and District Joint Hospital Board. It provides accommodation for 24 persons, and is always ready for the reception of patients.

During the year several persons suffering from Small-pox were admitted from the surrounding districts.

MILK SUPPLY.

The milk is supplied by farmers, some of whose farms are within the Borough, whilst others are outside the Borough.

There are 31 farms within the Borough from which milk is obtained, and the dairies and cowsheds attached to these have been regularly inspected.

More attention requires to be given, regarding cleanliness, in the process of milking.

The animals require grooming, and their udders cleansing, before they are milked. The milker also should perform his duties with thoroughly clean hands, wearing suitable and clean garments.

At some farms the manure is kept too close to the farm buildings, and in too large quantities; these accumulations encourage the growth of flies, &c., which readily contaminate the milk.

A regular veterinary inspection of all milch cows and the bacteriological examination of the milk at intervals are very desirable.

SLAUGHTER-HOUSES.

There are 16 slaughter-houses in the Borough. These are regularly inspected.

The erection of a public abattoir and the closure of the existing slaughter-houses are very desirable. More efficient supervision and inspection could then be obtained, many nuisances which exist would be removed, and the meat would be prepared under more healthy and cleanly conditions.

CLOSET ACCOMMODATION.

During the year, 64 privies and 3 pails have been abolished in connection with 150 houses, and fresh water closets have been substituted.

In addition, 7 waste water closets supplying 7 houses have been converted to the fresh water system.

This shews an increase in the number of conversions to the fresh water carriage system as compared with the previous year.

At the end of the year 1914, there were in the Borough :—

1386 Fresh Water Closets
2975 Waste Water Closets.
463 Pail Closets.
811 Privy Middens.

The following figures shew the number of houses at which conversions to the fresh water carriage system have been made during the last twelve years.

1903 37	houses where conversions have been made to the Fresh Water Carriage system and privies and pails abolished.			
1904 26	,,	,,	,,	,,
1905 29	,,	,,	,,	,,
1906 36	,,	,,	,,	,,
1907 54	,,	,,	,,	,,
1908 109	,,	,,	,,	,,
1909 70	,,	,,	,,	,,
1910 48	,,	,,	,,	,,
1911 86	,,	,,	,,	,,
1912 73	,,	,,	,,	,,
1913 106	,,	,,	,,	,,
1914 150	,,	,,	,,	,,
824				

If only this rate of progress continues it will take many years yet to abolish these unhealthy and insanitary conveniences.

The Council is advised to give this matter their earnest and serious attention. The existence of these insanitary conveniences causes much sickness and disease, and their removal would greatly improve the incidence of sickness in this town.

PUBLIC SANITARY CONVENIENCES.

This is a subject which has been fully discussed, but with little result so far.

The need of Public Conveniences, especially in the centre of the town is acknowledged. Provision should be made for both sexes.

DISINFECTION.

As you are aware, the Small-pox Hospital and its adjacent buildings have been transferred to the Bury and District Joint Hospital Board.

Until the Board took charge, it was the custom to remove to the Hospital, for disinfection, the clothing and bedding from the houses in the Borough where infectious diseases had occurred.

The Board have granted this Corporation the privilege of still using the disinfection apparatus at the Hospital whenever the latter is not in use.

As the Hospital is now much more likely to be used, there is every probability that infected clothing, etc., cannot be disinfected there as formerly. Even the old arrangement was found to be both costly and difficult to carry out, consequently it is very necessary that suitable provision should now be made in some convenient part of the Borough for the efficient disinfection of the clothing and bedding, etc., removed from the houses where infectious diseases have occurred.

SMOKE NUISANCE.

115 observations have been taken during the year. Legal proceedings have been taken in five cases, and in each case a conviction was obtained with costs. The fines in the five cases amounted to £7 15s. 0d.

The following Table gives the number of observations taken, the number of prosecutions undertaken owing to the time limit being exceeded, and the total amount of the fines made by the Magistrates during the last nine years :—

Year	Number of Observations taken, of one hour each	Prosecutions	Total Fines.
1906	53	3	10/- and costs.
1907	68	6	5/- ,,
1908	74	2	20/- ,,
1909	68	1	Costs only.
1910	102	7	40/- and costs.
1911	86	0	
1912	98	3	50/- ,,
1913	82	4	20/- ,,
1914	115	5	£7/15/0 ,,
	746	31	£15 and Costs in all cases.

Although in all these cases the prosecution was successful, and costs were allowed in every case, yet the fines only amounted to £15 or about 9s. 8d. per prosecution.

WATER SUPPLY.

I am indebted to the Engineers to the Heywood and Middleton Water Board, Messrs. J. Diggle & Son, C.E., for the following Report on the water supplied to this Borough.

THE HEYWOOD AND MIDDLETON WATER BOARD.

Analysis of a sample of water taken from the Water Board Offices.

REMARKS :—The water was clear and sparkling and free from any suspended matter.

ANALYSIS :—	Grains per Gallon.
Free and Saline Ammonia	0·0017
Albuminoid Ammonia.....	0·0024
Nitric Nitrogen Nitrites and Nitrates	0·05
Oxygen absorbed from an acid solution of Permanganate of Potash acting for 4 hours at 60° Fahr.	0·014
Chlorides calculated as (Cl.)...	0·80
Alkalinity expressed as Calcium Carbonate ($CaCo_3$)	0·70
Total Solids	6·30
Total Hardness	3·5 Clark.

REPORT :—The analytical figures indicate that the water is of excellent quality.

The water has no action on Lead Service Pipes.

FRANK SCUDDER, F.I.C.,

ANALYST.

FACTORY AND WORKSHOPS ACT, 1901.

In accordance with the provisions of the Factory and Workshops' Act, 1901, it is now incumbent on the Medical Officer of Health to every Local Authority to report upon the administration of the Act in his district, &c.

The principal industries in the Borough of Heywood are :— Cotton spinning, cotton and woollen weaving, flannelette and towel manufacturing, dyeing, bleaching, &c. At the workshops in the Borough the following trades are carried on : Tailoring, dressmaking, millinery, printing, iron-founding, brass-founding, wheelwrighting, joinery, building, mineral water manufacturing, and baking (bake-houses are now included within the provisions of the Act).

The number of manufactories in the town is 64.

The number of workshops in the town is 156.

Description of workshops on the register :—

Laundries...	4
Other Workshops	132
Bakehouses	20
	156

Factories, Workshops, Laundries, Workplaces, and Homework.

1.—INSPECTION.

Including inspections made by Sanitary Inspectors or Inspector of Nuisances.

Premises :

	Inspections	Notices	Prosecutions
Factories (including Factory Laundries)	16	6	—
Workshops (including Workshop Laundries)..	124	2	—
Workplaces	12	0	—
	152	8	0

2.—DEFECTS FOUND.

Particulars :—

Nuisances under the Public Health Acts :—

	Number of Defects Found		Remedied
Want of cleanliness	6	...	6
Want of ventilation	0	...	0
Overcrowding	3	...	3
Sanitary Accommodation :—			
Insufficient	3	...	2
Unsuitable or defective	4	...	3
Not separate for sexes	1	...	1
Offences under the Factory & Workshops' Act :—			
Breach of special sanitary requirements for Bakehouses (S.S. 97 to 100)	1	...	1
Other Offences	2	...	2
	20		18

3.—OTHER MATTERS.

Class :—

Matters notified to H.M. Inspector of Factories :—	Number 0
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshops' Act (S. 5)	Notified by H. M. Inspector 14 / Reports (of action taken) sent to H. M. Inspector 0

Underground Bakehouses (S. 101).

Certificates granted in 1914	0
In use at the end of 1914	3

	Number of Lists.		Workers.
Homework :—			
List of Outworkers (S. 107).			
Lists received	4		4

Mr. J. B. Nuttall, the Borough Surveyor, has kindly supplied me with the following statement of work done in his department during the year :—

The following streets have been flagged, paved and sewered from January to December, 1914 (inclusive) :—

Sewering & Draining...	Back Hind Hill Street (Mary Street to rear of New Roman Catholic Church).
	Hornby St. (King St. to Hardfield St.)
	Roach Street, Heap Bridge.
Paving	Hornby St. (King St. to Hardfield St)
	Regent St. (Agincourt-st. to Rosehill-st.)
Kerbing and Flagging...	Hornby St. (King-st. to Hardfield-st.)

Private Street Works in Broadfield Street and Unity Street were in progress at the end of the year.

I am, Gentlemen,

Your obedient servant,

H. H. I. HITCHON,

Medical Officer of Health.

HEALTH DEPARTMENT,
MUNICIPAL BUILDINGS,
HEYWOOD.

To the Chairman and Members of the Health and Contagious Diseases (Animals) Committee.

GENTLEMEN,

I have much pleasure in submitting to you my Annual Report, giving particulars of the Sanitary Work which has been done during the year 1914.

	1914.	1913.
Houses from which Privies have been abolished and Water Closets substituted	147	77
Houses from which Privies have been abolished and Waste Water Closets substituted	—	—
Houses from which Pails have been abolished and Water Closets substituted	3	29
Houses from which Waste Water Closets have been abolished and Clean Water Closets substituted	7	—
House drains and Water Closets opened and cleansed from obstruction	114	92
Drains provided with efficient traps	12	20
Drains repaired and reconstructed	164	115
Backyards paved or repaired	182	123
Dirty Houses cleansed and limewashed	110	142
Slopstone pipes disconnected from drains	3	2
Urinal repaired and position altered	1	—
Roofs of Houses repaired and made weatherproof	34	46
Defective Spouting repaired or replaced	22	16
Offensive Accumulations removed	62	108
Privies and Ashpits structurally repaired	6	—
Ashbins provided in lieu of Ashpits	158	117
Defective Sanitary Pails renewed	46	78

It will be noticed that there is again another increase in the number of conversions to the water carriage, if this is to be maintained during 1915, it will be necessary to take more definite action to help this work forward.

It is pleasing to record that a large number of the 157 houses where this change has been made have also had the whole of the back-yard premises redrained, flagged or asphalted and the yard area increased, and ashbins provided in lieu of ash-pits.

Of the seven houses converted from the waste water system the owner of six houses, pulled down the buildings including the ash-pits and built new fresh water closets with fixed ash-bins. The area of the yards was therefore increased.

INFECTIOUS DISEASES.

There has been a large increase in the number of cases notified, causing much additional work. 1,682 visits have been made for the purpose of making enquiries, seeing that precautionary measures were adopted and proper isolation obtained.

Sixty-one cases have been removed to hospital and 474 rooms disinfected.

DAIRIES, COWSHEDS AND MILKSHOPS.

We have 31 Dairies and Cowsheds and 3 Milkshops in the Borough.

Seventy-six inspections were made and the general maintenance was found good. Structural alterations have been made to three cowsheds.

INSPECTION OF FOOD SUPPLY.

The establishments where food is prepared, and sold, have been regularly inspected. The killing of cattle at all hours and the situation of some of the slaughter-houses makes systematic inspection difficult.

425 lbs. of meat and 256 plaice were seized and destroyed, being diseased or otherwise unfit for food. Legal proceedings were taken against a person for exposing for sale a quantity of fish which was unsound and unfit for food. The defendant proved to the satisfaction of the magistrates that the fish was not exposed for sale, and the case was dismissed.

CONTAGIOUS DISEASES (ANIMALS) ACT.

In February and July owing to out-breaks of Foot and Mouth Disease in Ireland, the Board of Agriculture issued orders to detain all cattle which had recently landed from Ireland.

All the farms in the Borough were immediately visited, and enquiries made and where such cattle were found, detention notices were served. Afterwards the Veterinary Inspector was informed, and he made an examination of all the cattle.

SLAUGHTER HOUSES.

Weekly visits and in some cases bi-weekly visits are made to the Slaughter Houses in the Borough, and the general maintenance was usually found to be good.

COMMON LODGING HOUSES.

The four Common Lodging Houses are frequently visited and are kept in a clean and satisfactory condition.

FACTORY AND WORKSHOPS' ACT.

Details of the inspections made and work done under this Act will be found on pages 45 and 46.

CANAL BOATS' ACTS.

Although the usual visits were made to the Canal Wharf fewer boats were inspected as the traffic on the canal was considerably reduced from August to the end of the year.

38 boats were inspected and one infringement was found.

SMOKE OBSERVATIONS.

One hundred and fifteen observations of half-an-hour each have been made of Factory Chimneys. The total amount of Black Smoke emitted was 181 minutes 35 seconds, giving an average for each emission of 1 minute 35 seconds.

No Black Smoke was recorded in 52 or 45·21 per cent. of these.

Twenty-three or 20 per cent. exceeded our time limit with a total duration of 117 minutes Black Smoke or an average of 5 minutes 5 seconds.

Five firms were prosecuted after due notice had been given and fines amounting to £7 15s. 0d were imposed.

It is satisfactory to notice that in 45 per cent. of the observations made no Black Smoke was emitted, this would indicite that much of the Black Smoke can be abated considering that most of the Factories in this town carry on similar work.

HOUSING AND TOWN PLANNING ACT.

Particulars of the Inspections under this Act will be found on page 39.

REMOVAL OF NIGHTSOIL.

	1914.	1913.
Number of Privies emptied	10972	11958
,, Ashpits emptied	8847	8326
,, Ashbins emptied	84120	70112
,, Fish Tubs emptied	640	766
,, Loads removed	4605	4430
,, Pails emptied	30233	28534
,, Barrels removed	345	348

I am, Gentlemen,

Your obedient servant,

TOM ROBINSON.

TABLE A. Table of Deaths during the year 1914, in the Heywoo

WARDS	AGES	Small Pox.	Measles.	Scarlet Fever.	Whooping Cough	Diphtheria and Membranous Croup	Croup	Fevers			Epidemic Influenza	Cholera	Plague
								Typhus	Enteric	Other continued			
EAST.....	Under 1 year...	...	1	...	1	...	...	...	...	...	...	...	...
	1 and under 5	...	1	1	1	...	...	...	...	...	...	...	...
	5 and under 15	...	...	...	...	...	...	...	...	...	...	...	...
	15 and under 25	...	...	...	...	...	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	...	...	...	...	...
	65 and upwards	...	...	...	...	...	...	...	...	...	...	...	...
	At all ages.....		2	1	2								
NORTH.....	Under 1 year...	...	...	...	...	...	...	...	...	...	...	...	...
	1 and under 5	...	...	...	...	2	...	...	...	...	...	...	...
	5 and under 15	...	...	...	...	2	...	...	...	...	...	...	...
	15 and under 25	...	...	..	...	...	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	...	...	..	..	...
	65 and upwards	...	...	...	...	...	...	...	...	...	...	...	...
	At all ages.....					4							
PARK.....	Under 1 year...	...	...	...	2	...	...	...	...	...	...	...	...
	1 and under 5	...	...	...	...	...	...	...	..	...	...	...	...
	5 and under 15	...	...	...	...	...	..	..	...	...	...	..	...
	15 and under 25	...	...	...	...	...	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	...	...	2	...	...
	65 and upwards	...	...	...	...	...	...	...	...	...	..	..	...
	At all ages				2						2		
CENTRAL.....	Under 1 year...	...	...	...	...	...	...	...	...	...	...	...	...
	1 and under 5	...	...	...	...	...	...	...	...	...	...	...	...
	5 and under 15	...	...	...	...	...	...	...	...	...	...	...	...
	15 and under 25	...	...	...	...	..	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	...	...	...	...	...
	65 and upwards	...	...	...	...	...	...	...	...	...	...	...	...
	At all ages.....												
HOPWOOD.....	Under 1 year..	...	...	...	...	...	...	...	...	...	...	...	...
	1 and under 5	...	...	...	1	...	...	...	...	...	...	...	..
	5 and under 15	...	...	1	...	...	...	...	...	...	...	...	...
	15 and under 25	...	...	...	...	...	...	...	..	...	...	..	...
	25 and under 65	...	...	...	...	...	...	...	...	...	...	...	...
	65 and upwards	...	...	...	...	...	...	...	...	...	...	...	...
	At all ages.....			1	1								
SOUTH...	Under 1 year...	...	...	...	1	...	...	...	...	...	..	...	...
	1 and under 5	...	...	...	...	...	...	...	...	...	...	...	...
	5 and under 15	...	...	...	...	...	...	...	...	...	...	...	...
	15 and under 25	...	...	..	...	...	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	...	...	...	...	...
	65 and upwards	...	...	...	...	...	...	...	..	...	...	...	...
	At all ages.....				1								
HEAP BRIDGE..... ..	Under 1 year...	...	...	...	...	...	...	...	...	...	...	...	...
	1 and under 5	..	...	...	...	...	..	...	...	...	...	...	...
	5 and under 15	...	...	...	...	...	...	...	...	...	...	...	...
	15 and under 25	...	...	...	...	...	...	...	...	...	...	...	...
	25 and under 65	...	...	...	...	...	...	...	..	...	...	...	...
	65 and upwards	...	..	...	...	...	...	...	...	...	...	...	...
	At all ages.....												
WEST	Under 1 year...	...	1	...	...	...	...	...	...	..	...	..	...
	1 and under 5	...	...	...	...	...	...	...	...	...	...	...	...
	5 and under 15	..	...	...	..	...	..	...	...	...	...	...	...
	15 and under 25	...	...	...	...	..	...	...	...	...	...	...	..
	25 and under 65	...	...	...	...	...	...	...	...	...	1	...	...
	65 and upwards	...	...	...	...	...	...	...	...	...	...	...	...
	At all ages		1								1		
INFECTIOUS DISEASES HOSPITAL.....		...	...	...	...	...	...	...	...	...	...	...	...
Total number of Deaths from each Disease			3	2	6	4					3		

rban Sanitary District, classified according to Diseases, Ages, & Localities.

Puerperal Fever	Erysipelas	Other Septic Diseases	Phthisis	Other Tubercular Diseases	Cancer Malignant Disease	Bronchitis	Pneumonia	Pleurisy	Other Diseases of Respiratory Organs	Alcoholism, Cirrhosis of Liver	Venereal Diseases	Premature Births	Diseases or Accidents of Parturition	Heart Disease	Accidents	Suicides	Other Inquests or Coroner's enquiries	Rheumatic Fever	All other causes	TOTAL
...	...	...	...	...	...	2	1	...	...	...	...	2	...	...	...	...	...	...	3	10
...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	..	5
...	...	...	1	..	...	...	1	...	...	..	..	...	...	...	...	...	...	...	...	2
...	...	...	4	3	3	1	2	...	...	1	...	...	1	...	...	...	1	1	3	20
...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	4	8
			5	4	5	5	4			1	1	2	1				1	1	10	45
...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	4	...	6	13
...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	2
...	...	...	3	...	1	1	3	...	...	...	...	...	1	3	...	2	1	...	5	20
...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	1	1	...	...	9	15
			3		1	7	5						1	5	1	3	5		21	57
...	...	...	...	2	...	1	...	...	...	...	..	...	...	...	...	...	1	...	1	7
...	...	...	...	...	...	3	3	...	...	...	...	...	...	...	...	...	...	...	1	8
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	4	...	...	2	2	...	...	...	...	...	...	5	...	...	...	...	7	22
...	2	...	...	...	...	2	1	...	...	...	...	...	...	3	...	...	1	...	5	14
	2		5	2		8	6							8			2		15	53
...	..	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	6	8
...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	1	4
...	...	...	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	..	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
1	1	...	5	...	1	3	2	1	...	...	..	...	...	2	1	1	1	...	5	24
...	...	...	1	...	1	3	1	1	...	...	...	...	...	3	...	...	...	...	3	13
1	1		7	2	2	8	5	2			1			5	1	1	1		15	52
...	...	...	...	...	..	1	2	...	...	...	...	2	...	...	...	...	2	...	5	12
...	...	...	...	2	...	...	2	1	...	...	...	...	...	...	...	...	...	...	1	7
...	...	...	...	1	...	...	1	...	...	...	..	...	...	...	...	...	2	...	1	6
...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	1	1
...	...		4	...	1	2	3	...	..	...	...	...	...	4	..	...	2	...	9	25
...	...	...	1	...	1	3	2	...	...	...	...	..	...	2	...	...	3	...	11	23
			5	3	2	6	10	1				2		6			9		28	74
...	...	...	...	...	...	1	...	..	...	...	...	...	...	...	...	...	1	...	6	10
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	2	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	2
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	3
..	...	...	1	...	4	4	1	...	...	...	...	...	...	2	1	...	...	...	4	17
...	1	...	...	...	2	3	2	...	...	...	...	...	...	2	...	...	1	...	8	19
	1		2	2	6	8	3							4	1	1	2	1	19	52
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1	3
...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	1	1	...	...	...	...	...	...	1	4	...	3	...	...	6	16
...	...	...	...	...	1	5	...	...	...	...	...	...	...	1	...	...	1	...	10	18
				1	2	6							1	6		3	2		18	39
...	...	...	...	...	...	1	..	...	...	...	1	1	...	...	...	...	3	...	4	11
...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	3
...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	5	...	1	1	3	1	...	...	...	...	...	2	...	...	2	1	4	21
...	...	...	..	...	1	4	...	...	...	...	...	...	...	2	...	...	...	...	6	13
			5	1	2	8	4	1			1	1		4			5	1	14	49
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	4		32	15	20	56	37	4		1	3	5	3	38	3	8	27	3	140	421

TABLE B.

Table of POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS DISEASES coming to the knowledge of the Medical Officer of Health during the year 1914, in the Urban Sanitary District of the Borough of Heywood, classified according to Diseases, Ages & Localities.

Names of Localities adopted for the purpose of these Statistics; Public Institutions being shewn as separate localities.	Population at all ages		Registered Births	Aged under 5 or over 5	New cases of sickness in each locality coming to the knowledge of the Medical Officer of Health by notification or otherwise.														Number of such cases removed from their homes in the several localities for treatment in the Isolation Hospital.												
									Fevers													Fevers									
	Census 1911	Estimated Population 1914			Small-pox	Scarlatina	Diphtheria and Membranous Croup	Poliomyelitis	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Tuberculosis	Chicken Pox	Erysipelas	Ophthalmia Neonatorum	Small-pox	Scarlatina	Diphtheria	Membranous Croup	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Chicken Pox	Erysipelas	Ophthalmia Neonatorum
(a)	(b)	(c)	(d)	(e)																											
EAST WARD	3109	3150		Under 5		4																									
				5 upw'ds		28				1			1		14		2			6											
NORTH WARD	3428	3440		Under 5		3	2									1															
				5 upw'ds		17	5								5	1	2			3											
PARK WARD	3590	3610		Under 5		3									2					2											
				5 upw'ds		17				2					13		2			2											
CENTRAL WARD	3558	3570		Under 5		4									1	3		1		1											
				5 upw'ds		17							1		16		3			3											
HOPWOOD WARD	3854	3920	546	Under 5		16									1	4				2											
				5 upw'ds		47							4		10	2	1			13											
SOUTH WARD	3423	3500		Under 5		5	1								1	4		4		2											
				5 upw'ds		21									13	1	3			6											
HEAP BRIDGE WARD	2658	2720		Under 5		7									1	1				3											
				5 upw'ds		18				2					4	7	2			7											
WEST WARD	3078	3190		Under 5		4									3	5				1											
				5 upw'ds		28									16	4				9											
TOTALS	26698	27100		Under 5		46	3								9	18		5		11											
				5 upw'ds		193	5			5			6		91	15	15			49											

TABLE No. 1.

Shows mortality from all causes at the subjoined ages, in each of the different Wards of the Borough, with the annual death rate per thousand appertaining to each.

WARD.	Under one Year	One and under Five	Five and under Fifteen	Fifteen and under Twenty-five	Twenty-five and under Sixty-five	Sixty-five and upwards	Total	Rate per 1000 living New arrangement of Wards.	Rate per 1000 living Old arrangement of Wards
East	10	5	2	..	20	8	45	14·28	
North	13	4	3	2	20	15	57	16·56	15·19
Park	7	8	..	2	22	14	53	14·68	
Central	8	4	1	2	24	13	52	14·56	
Hopwood	12	7	6	1	25	23	74	18·87	16·19
South	10	1	2	3	17	19	52	14·85	
Heap Bridge	3	1	..	1	16	18	39	14·33	
West.....	11	3	..	1	21	13	49	15·36	14·89
Infectious Diseases Hospital	..	..	..	..	..	..	..	..	..
Totals.....	74	33	14	12	165	123	421	15·53	15·53

Death Rate per thousand of population for the year	1913	16·01	Death Rate per thousand of population for the year	1897	16·7
,, ,,	1912	13·35	,, ,,	1896	18·6
,, ,,	1911	14 98	,, ,,	1895	22·9
,, ,,	1910	13·81	,, ,,	1894	18·6
,, ,,	1909	13·82	,, ,,	1893	23·2
,, ,,	1908	15·56	,, ,,	1892	21·7
,, ,,	1907	15·62	,, ,,	1891	25·3
,, ,,	1906	16·01	,, ,,	1890	19·0
,, ,,	1905	15·53	,, ,,	1889	20·5
,, ,,	1904	18·62	,, ,,	1888	18·2
,, ,,	1903	15·74	,, ,,	1887	19·0
,, ,,	1902	15·62	,, ,,	1886	19·0
,, ,,	1901	15·12	,, ,,	1885	17·7
,, ,,	1900	18·32	,, ,,	1884	19·6
,, ,,	1899	19·24	,, ,,	1883	18·4
,, ,,	1898	18·77			

Death Rate per thousand of population for the year of children under one year 2·73

Per centage of deaths under one year to total deaths for the year 17·57

TABLE No. 2.

Shows the number of deaths in each month, and the ward in which they occurred.

District	January	February	March	April	May	June	July	August	September	October	November	December	Total
EAST WARD	3	2	3	6	8	5	3	2	3	4	4	2	45
NORTH WARD	6	1	13	3	4	1	2	2	2	7	7	9	57
PARK WARD	3	12	3	8	3	4	3	3	3	2	2	7	53
CENTRAL WARD	2	5	11	8	3	5	4	5	4	2	..	3	52
HOPWOOD WARD	8	6	5	14	10	5	2	4	4	3	6	7	74
SOUTH WARD	2	1	11	3	4	9	2	5	6	5	1	3	52
HEAP BRIDGE WARD ..	4	2	7	5	2	2	3	3	4	2	2	3	39
WEST WARD.....	6	4	6	5	4	6	2	..	2	5	3	6	49
INFECTIOUS DISEASES HOSPITAL	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL.....	34	33	59	52	38	37	21	24	28	30	25	40	421

TABLE No. 3.

Number and cause of death in each month.

Cause of Death	January	February	March	April	May	June	July	August	September	October	November	December	Total
Small Pox													
Measles						1	2						3
Scarlet Fever								2					2
Whooping Cough	1	3	1	1									6
Diphtheria and Membranous Croup												4	4
Croup													
Typhus Fever													
Enteric Fever													
Other continued Fevers													
Epidemic Influenza		1		2									3
Cholera				..									
Plague													
Diarrhœa									2	1			3
Enteritis													
Puerperal Fever			1										1
Erysipelas	1	2		1									4
Other Septic Diseases													
Phthisis	2	2	5	4	7	3		1	3	1		4	32
Other Tubercular Diseases	2		1	2	1			1	2	2	2	2	15
Cancer, Malignant Disease	1		3	3	4	2	1	1		1	1	3	20
Bronchitis	6	5	13	5	2	7	2	2	3	4	4	3	56
Pneumonia	3	3	6	5	4	6	3	1	1	2	2	1	37
Pleurisy	2			1		1							4
Other Diseases of Respiratory Organs													
Alcoholism, Cirrhosis of Liver										1			1
Venereal Disease		1	1					1					3
Premature Births				1				2		1		1	5
Diseases and Accidents of Parturition.			1	1							1		3
Heart Disease	3	3	5	4	2	2	2	2	2	6	2	5	38
Accidents	1					1		1					3
Suicides			5			1			1	1			8
Other Inquests or Coroner's Enquiries	1	2	1	3	4		2	2	1	4	2	5	27
Peripheral Neuritis													
Desquamative Dermatitis													
Rheumatic Fever			1						1	1			3
All other causes	11	11	15	19	14	13	9	8	12	5	11	12	140
Totals	34	33	59	52	38	37	21	24	28	30	25	40	421

TABLE 4.

Notifications of Infectious Diseases from January 1st to December 31st, 1914.

Month	Small Pox	Cholera	Diphtheria and Membranous Croup	Erysipelas	Fevers.						Tuberculosis	Plague	Poliomyelitis	Chicken Pox	Ophthalmia Neonatorum	Totals
					Scarlet	Typhus	Enteric	Relapsing	Continued	Puerperal						
January				3	5					1	11				1	21
February				2	6					3	11				1	23
March					6					1	11				1	19
April				3	15		1			1	10					30
May			1	1	18						10					30
June				2	10						4				1	17
July				1	27		1				5					34
August				1	34						5			2		42
September					11						11			3		25
October					28						11			5	1	45
November			2	1	47		2				5			10		67
December			5	1	32		1				6			13		58
Totals			8	15	239		5			6	100			33	5	411

TABLE No. 5.

This table gives a revision of the deaths from 35 different causes during the last twenty-five years.

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Small Pox	..	..	..	..	1	..	4	..	1	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..
Measles	1	11	16	8	1	20	11	11	9	17	29	1	3	1	22	1	8	11	5	1	22	1	8	9	3
Scarlet Fever	1	..	4	17	9	18	7	4	3	1	1	..	2	3	3	11	10	1	..	6	8	2	2	4	2
Whooping Cough	4	15	4	4	..	4	13	3	9	..	9	3	..	4	20	1	..	8	1	5	4	1	3	3	6
Diphtheria and Membranous Croup	13	49	25	9	6	9	1	2	1	..	4	5	16	8	6	10	5	2	3	1	..	2	..	4	4
Croup	4	8	10	..	2	3	5	1	..	..	2	1	..	..	..	..	..	1	..	..	..	..	..	..	..
Typhus Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever	6	9	4	4	3	6	1	4	1	8	2	1	3	1	..	2	6	1	3	2	..	1	2	2	..
Other continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Epidemic Influenza	..	..	..	..	..	20	2	11	7	22	11	6	6	4	6	5	6	13	8	8	3	..	4	3	3
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..
Plague	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	8	8	5	*	*	*	12	35	32	45	24	24	7	9	27	20	34	4	40	3	7	52	3	25	3
Enteritis	*	*	*	*	*	*	*	*	*	*	4	4	4	1	1	4	5	..	7	4	4	2	3	..	..
Puerperal Fever	3	2	..	2	1	1	1	1	2	3	..	1	1	..	1	..	1	1	..	..	1	1	1	3	1
Erysipelas	2	1	3	1	1	2	1	1	..	..	2	1	1	1	1	..	1	..	..	1	..	..	..	..	4
Other Septic Diseases	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Phthisis	37	44	40	*	*	*	59	44	60	73	47	51	33	40	39	32	25	36	33	32	37	23	37	34	32
Other Tubercular Diseases	..	..	..	..	..	..	..	..	..	..	9	13	13	16	5	10	9	12	12	22	17	18	11	18	15
Cancer, Malignant Disease	*	*	*	*	*	*	*	*	*	*	24	15	16	22	25	33	16	24	22	19	18	31	23	23	20
Bronchitis	..	..	..	..	..	..	..	..	..	.	52	35	49	61	54	52	55	64	52	58	38	27	36	57	56
Pneumonia	127	148	121	112	96	120	129	89	109	112	44	41	39	38	39	30	26	40	23	29	23	23	16	26	37
Pleurisy	..	..	..	..	..	..	..	..	..	..	2	..	1	..	3	..	1	3	..	..	..	..	1	..	4
Other Diseases of Respiratory Organs	..	..	..	..	..	..	..	..	..	..	3	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Alcoholism, Cirrhosis of Liver	*	*	*	*	*	*	*	*	*	*	6	6	5	10	8	7	3	4	3	2	3	3	4	7	1
Venereal Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	3
Premature Births	*	*	*	*	*	*	*	*	*	*	10	3	7	9	15	5	8	10	6	2	12	12	9	10	5
Diseases and Accidents of Parturition	*	*	*	*	*	*	*	*	*	*	1	1	4	3	7	6	1	1	2	3	2	1	5	5	3
Heart Disease	44	32	32	*	*	*	36	42	53	31	33	34	34	33	39	31	33	38	31	34	34	44	33	42	38
Accidents	..	..	..	..	..	..	..	..	..	..	8	4	5	6	7	2	4	3	2	6	3	2	1	4	3
Suicides	13	9	7	*	*	*	14	9	17	36	3	4	2	2	3	2	3	4	4	..	1	5	3	6	8
Other Inquests or Coroner's Enquiries	..	..	..	..	..	..	..	..	..	..	21	20	23	12	20	19	22	11	27	22	18	19	23	22	27
Rheumatic Fever	2	2	2	*	*	*	3	1	7	7	2	..	5	2	1	1	3	..	1	1	4	2	..	2	3
Peripheral Neuritis	*	*	*	*	*	*	*	*	*	*	*	1	..	..	..	..	..	2	..	..	..	..	..	..	..
Desquamative Dermatitis	*	*	*	*	*	*	*	*	*	*	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
All other causes	210	252	233	385	314	371	167	173	171	146	112	105	126	120	134	126	141	125	135	116	121	128	131	123	140
Totals	475	590	506	542	434	574	466	431	482	501	466	385	405	408	487	410	426	419	421	377	380	400	362	434	421

* The number of deaths from this cause has not been tabulated separately.

TABLE No. 6.

INFANTILE MORTALITY DURING THE YEAR 1914.

Deaths from stated Causes in Weeks and Months under One year of Age.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month	1-3 Months	3-6 Months	6-9 Months	9-12 Months	Total Deaths under One Year
All Causes.	Certified	7	5	6	2	20	19	13	11	5	68
	Uncertified	3	..	..	..	3	..	1	1	1	6
Common Infectious Diseases	Small-Pox	..	..	..	..		..	..	..	..	..
	Chicken-pox	..	..	..	..		..	..	..	..	..
	Measles	..	..	..	..		..	..	1	1	2
	Scarlet Fever	..	..	..	..		..	..	..	..	..
	Diphtheria : Croup	..	..	..	..		..	..	..	..	..
	Whooping Cough	..	..	..	..		2	1	..	1	4
Diarrhœal Diseases		..	..	..	..		..	..	2	..	2
Wasting Diseases.	Premature Birth	2	1	..	..	3	2	..	..	..	5
	Congenital Malformation	..	..	..	..		..	..	..	..	..
	Injury at Birth	..	..	..	..		..	..	..	..	..
	Want of Breast-milk (Starvation)	..	..	..	..		..	..	..	..	..
	Atrophy, Debility, Marasmus	4	1	2	..	7	1	2	2	1	13
Tuberculous Diseases.	Tuberculous Meningitis	..	..	..	..		..	..	..	1	1
	Abdominal Tuberculosis	..	..	..	..		..	..	..	..	..
	Other Tuberculous Diseases	..	..	..	..		..	2	..	..	2
Other Causes	Erysipelas	..	..	..	..		..	..	..	..	..
	Syphilis	..	1	..	..	1	1	..	..	..	2
	Rickets	..	..	..	..		..	..	..	..	..
	Meningitis *(not Tuberculous)*	..	..	..	..		..	..	..	..	..
	Convulsions	1	1	1	1	4	1	3	..	..	8
	Gastritis	..	..	3	..	3	6	4	1	..	14
	Bronchitis	..	..	..	..		3	..	3	2	8
	Laryngitis	..	..	..	..		..	..	..	..	..
	Pneumonia	..	..	..	..		1	..	2	..	3
	Suffocation, overlying	..	..	..	..		..	..	..	..	..
	Other Causes	3	1	..	1	5	2	2	1	..	10
		10	5	6	2	23	19	14	12	6	74

TABLE No. 7.

Indicates the Birth and Death Rate since 1880. The Black line represents the death rate and the Red line the birth rate.

